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( Not for submission under 37 CFR 1.99)

Application Number		10775699	
Filing Date		2004-02-10	
First Named Inventor	David	Bebbington	
Art Unit		1624	
Examiner Name	Tamti	nom Ngo Truong	
Attorney Docket Number		VPI/00-130-07 DIV US	

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	2	6495582	B1	2002-12-17	Hale et al.	
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	1	20030078166	A1	2003-04-24	Davies et al.	
	2	20050004110	A1	2005-01-06	Bebbington et al.	
	3	20030073687	A1	2003-04-17	Bebbington et al.	

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4	20030064981	A1	2003-04-03	Knegtel et al.
5	20030055044	A1	2003-03-20	Davies et al.
6	20030083327	A1	2003-05-01	Davies et al.
7	20040097501	A1	2004-05-20	Bebbington et al.
8	20030078275	A1	2003-04-24	Bebbington et al.
9	20030055068	A1	2003-03-20	Bebbington et al.
10	20030036543	A1	2003-02-20	Bebbington et al.
11	20040002496	A1	2004-01-01	Bebbington et al.
12	20030225073	A1	2003-12-04	Bebbington et al.
13	20040009974	A1	2004-01-15	Bebbington et al.
14	20030199526	A1	2003-10-23	Choquette et al.

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15	20030092714	A1	2003-05-15	Cao et al.
16	20040229875	A1	2004-11-18	Cao et al.
17	20030096816	A1	2003-05-22	Cao et al.
18	20040023963	A1	2004-02-05	Cao et al.
19	20030207873	A1	2003-11-06	Harrington et al.
20	20030096813	A1	2003-05-22	Cao et al.
21	20030144309	A1	2003-07-31	Choon-Maan
22	20040009996	A1	2004-01-15	Moon et al.
23	20030171389	A1	2003-09-11	Bemis et al.
24	20040029857	A1	2004-02-12	Hale et al.
25	20050234059	A1	2005-10-20	Hale et al.

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	26	20040097531	A1	2004-05	5-20	Ledeboer et a	l.		
	27	20030022885	A1	2003-01	1-30	Bebbington et	al.		
	28	20030004161	A1	2003-01	I-02	Bebbington et	al.		
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	1	0019811	EP		A1	1980-12-10	Ciba-Geigy AG		
	2	2052487	GB		А	1981-01-28	Ciba-Geigy AG		
	3	06-65237	JP		А	2007-10-25	Nissan Chem. Ind., Ltd.		×
	4	10-130150	JP		А	1998-05-19	Dainippon Pharmaceutical Co., Ltd.		×
	5	2458965	DE		A1	1976-06-16	Bayer AG		
	6	2000-026421	JP		А	2000-01-25	Kumiai Chem Ind. Co. Ltd.		×

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	_	-	7	-	1	Ÿ-	7			
	7	9918781	wo	A1	1999-04-22	Cytovia, Inc.				
	8	9965897	wo	A1	1999-12-23	Chiron Corporation				
	9	0218346	wo	A1	2002-03-07	Pfizer Products Inc.				
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Examiner Initials*	Cite No	(book, magazin		symposium	ı, catalog, etc),	f the article (when approp date, pages(s), volume-is		T5		
	1	Alonso, M. et al., "GSK-3 Inhibitors: Discoveries and Develoments", Current Medicinal Chemistry, 11, 755-763 (2004).								
	2	Anonymous, "Vertex Inhbitors of Aurora-2, glycogen synthase kinase-3 and Src Kinase", Expert Opin. Ther. Patents, 14(3): 439-443 (2004).								
	3	Baig, G.U. et al., "Triazines and Related Products. Part 28' Conversion of 3-Anyl-H(2-cyanopheny1) triazenes into 3-Arylqu i nazol i n-4(3H) -ones with Formamide" J. Chem. Soc. Perkin Trans. I, 3765-2766 (1984).								
	4	Bischoff, J.R., et al., "A homologue of Drosophila aurora kinase is oncogenic and amplified in human colorectal cancers", The EMBO Journal, 17(11): 3052–3065 (1998).								
	5	Bischoff, J.R., et BIOLOGY, 9, 454		1p kinase far	mily: regulators o	of chromosome segregation a	and cytokinesis", CELL			
	6					sm of Disubstituted Tricycloq C), 2641-2647 (1970).	uinazolines			
		1								

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7	Wolff, M.E., "Burger's Medicinal Chemistry and Drug Discovery," 5th ed., Vol. 1: Principles and Practice, 975-977 (1995).	
8	Cohen, P. et al., "The renaissance of GSK3," Nat. Rev. Mol. Biol., 2, 769-776 (2001).	
9	Eldar-Finkelman, H. et al., "Challenges and opportunities with glycogen synthase kinase-3 inhibitors for insulin resistance and Type 2 diabetes treatment," Expert Opinion on Investigational Drugs, 12(9): 1511-1519 (2003).	
10	Harrington, E.A. et al., "VX-680, a potent and selective small-molecule inhibitor of the Aurora kinases, suppresses tumor growth in vivo," Nat. Med., 10(3): 262-267 (2004).	
11	Heutink, P., "Untangling tau-related dementia", Hurn. Mol. Genet., 9(6): 979-986 (2000).	
12	Nigg, E.A., "Mitotic Kinases as Regulators of Cell Division and its Checkpoints," Nat. Rev. Mol. Cell Biol., 2: 21-32 (2001).	
13	Traxier, P. et al., "Use of a Pharmacophore Model for the Design of EGF-R Tyrosine Kinase Inhibitors: 4-(Phenylamino)pyrazolo[3,4-d]pyrimidines," J. Med. Chem., 40, 3601-3616 (1997).	
14	CAPLUS listing Accession No. 1994:292136, Nakajima, Y. et al., "Pyrazoles agricultural and horticultural bactericides," JP 06065237 (1994).	
15	DATABASE CA "Online!" Chemical Abstract Service, Columbus, OH, US; Kelarev, V.I. et al., "Synthesis of amino derivatives of 1,3,5-tinazine containing 1,3-4-thiadiazole fragments," Database Accession No. 1996;89514  XPC02242653 abstract & LYVESTIYA VYSSHIKH LICHEBIKH ZAVEDENII, KHIMIYA LKHIMICHESKAYA TEKHNOLOGIYA, 40(5): 27-32 (1997).	
16	Chalmers, D.T. et al., "Corticotrophin-releasing factor receptors: from molecular biology to drug design," TiPS, 17, 769-776 (2001).	
17	Kim et al., "GSK3, a master switch regulating cell-fate specification and tumorigenesis," Current Opinion in Genetics & Development, 10:508-514 (2000).	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.N./

18	Lyrer, P., Schweiz. Med. Woohen Schr., 124(45); 2005-2012 (1994).	
19	Douglas, et al., "Introduction to Viral Disease, Cecil Textbook of Medicine, 20th Edition, Vol. 2, 1739-1749 (1996).	
20	Banker, G.S. et al., "Modern Pharmaceutics", 451 & 596, 3rd ed., Marcel Dekker, New York (1996).	
21	Lovestone, S. et al., "Alzheimer's disease-like phosphorylation of the microtubule-associated protein tau by glycogen synthase kinase-3 in transfected mammalian cells", Curr. Biol., 4(12), 1077-86 (1994).	
22	Ivashchenko A. V. et al., "Synethsis and Study of Heteroaromatic Ligands Containing a Pyrimidine Ring", Khim. Geterotsiki. Soedin., (12), 1673-7, (1980) (in English).	
23	Brownlees, J. et al., "Tau phosphorylation in transgenic mice expressing glycogen synthase kinase-3beta transgenes", Neuroreport., 8(15), 3251-5 (1997).	
24	Biagi, G. et al., "Synthesis of 4,6 Disubstituted and 4,5,6-Trisubstituted-2-Phenyl-pyrimidines and Their Affinity Towards A1 Adenosine Receptors", Farmaco., 52(1), 61-65 (1997).	
25	Ali, N.M. et al, "Palladium-Catalyzed Cross Coupling Reactions of Arylboronic Acids with Pi-Deficient Heteroaryl Chlorides" Tetrahedron, 48 (37), 8117-8126 (1992).	
26	Zhang, Z. et al., "Destabilization of ß catenin by mutations in presenilin-1 potentiates neuronal apoptosis", Nature, 395, 698-702 (1998)	
27	Takashima, K. et al., "Tau Protein Kinase I is Essential for Amyloid &-Protein-Induced Neurotoxicity", PNAS 90, 7789-7793 (1993).	
28	Pei, J. et al., "Distribution, Levels, and Activity of Glycogen Synthase Kinase-3 in the Alzheimer Disease Brain", J. Neuropathol. Exp., 56, 70-78 (1997).	

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29	IUPAC Compendium of Chemical Terminology on a definition of "aliphatic compounds" found from http://www.chemsoc.org/chembytes/goldbook/index.htm (last visited on November 18, 2007).	
30	Moss et. al., Glossary of Class Names of Organic Compounds and Reactive Intermediates Based on Structure found from http://www.chem.gmul.ac.uk/lupac/class/index.html (last visited on November 18, 2007).	
-	Woodcock.	
31	Nomenclature found from http://www.cem.msu.edu/~reusch/VirtualText/nomen1.htm (last visited on November 18, 2007).	
32	Bokerneyer, D. et al., "Multiple intracellular MAP kinase signaling cascades", Kidney Int., 49, 1187-1198 (1996).	
33	Anderson, N.G. et al., "Multiple intracellular MAP kinase signaling cascades", Nature, 343, 651-653 (1990).	
34	Crews, C.M. et al., "The Primary Structure of MEK, a Protein Kinase That Phosphorylates the ERK Gene Product", Science, 256, 478-480 (1992).	
35	Bjorbaek, C. et al, "Divergent Functional Roles for p90rsk Kinase Domains", J. Biol. Chem., 270(32), 18848-18552 (1995).	
36	Rouse, J. et al., A Novel Kinase Cascade Triggered by Stress and Heat Shock That Stimulates MAPKAP Kinase-2 and Phosphorylation of the Small Heat Shock Proteins*, Cell, 78, 1027-1037 (1994).	
37	Raingeaud, J. et al., MMK3- and MMK6-Regulated Gene Expression Is Mediated by p38 Mitogen-Activated Protein Kinase Signal Transduction Pathway*, Mol. Cell. Biol., 16, 1247-1255 (1996).	
38	Chen, R.H. et al., "Phosphorylation of the c-Fos transrepression domain by mitogen-activated protein kinase and 90-kDa ribosomal S6 kinase", Proc. Natl. Acad. Sci. USA, 90, 10952-10956 (1993).	
39	Moodle, S.A. et al., "Complexes of Ras-GTP with Raf-1 and Mitogen-Activated Protein Kinase Kinase", Science, 260 (5114), 1658-1661 (1993).	
	30 31 32 33 34 35 36 37	chemsoc org/chembytes/goldbook/index.htm (last visited on November 18, 2007).  Moss et. al., Glossary of Class Names of Organic Compounds and Reactive Intermediates Based on Structure found from http://www.chem.gmul.ac.uk/iupac/class/index.html (last visited on November 18, 2007).  Woodcock, Nomenclature found from http://www.cem.msu.edu/~reusch/VirtualText/nomen1.htm (last visited on November 18, 2007).  Bokemeyer, D. et al., "Multiple intracellular MAP kinase signaling cascades", Kidney Int., 49, 1187-1198 (1996).  Anderson, N.G. et al., "Multiple intracellular MAP kinase signaling cascades", Nature, 343, 651-853 (1990).  Crews, C.M. et al., "Multiple intracellular MAP kinase signaling cascades", Nature, 343, 651-853 (1990).  Crews, C.M. et al., "The Primary Structure of MEK, a Protein Kinase That Phosphorylates the ERK Gene Product", Science, 258, 478-480 (1992).  Bjorbaek, C. et al., "Divergent Functional Roles for p90rsk Kinase Domains", J. Biol. Chem., 270(32), 18848-18552 (1995).  Rouse, J. et al., A Novel Kinase Cascade Triggered by Stress and Heat Shock That Stimulates MAPKAP Kinase-2 and Phosphorylation of the Small Heat Shock Proteins", Cell, 78, 1027-1037 (1994).  Raingeaud, J. et al., MMK3- and MMK6-Regulated Gene Expression Is Mediated by p38 Mitogen-Activated Protein Kinase Signal Transcruction Pathway", Mol. Cell. Biol., 16, 1247-1255 (1996).  Chen, R.H. et al., "Phosphorylation of the c-Fos transrepression domain by mitogen-activated protein kinase and 90-kDa ribosomal S6 kinase", Proc. Natl. Acad. Sci. USA, 90, 10952-10956 (1993).

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	40	Termi	R.S. et al., "Involvement of Extracellular Signal-regulated Kinase $\lambda$ inal Kinase Activation by Transforming Growth Factor $\beta$ in the Neger Res., 57, 628-633 (1997).				
	41		aman, V.S., et al., "Hyperexpression of Mitogen-activated Protein It., 99(7), 1478-1483 (1997).	Kinase in Human Brea	st Cancer", J. Clin.		
	42		chel, A. et al., "Inhibition of ERK Activation Attenuates Endothelin- eration", Am. J. Respir. Cell Mol. Biol., 16, 589-596 (1997).	stimulated Airway Smo	ooth Muscle Cell		
	43	Yuan, Z.Q. et al., "Frequent activation of AKT2 and induction of apoptosis by inhibition of phosphoinositide-3-OH kinase/Akt pathway in human ovarian cancer", Oncogene, 19, 2324-2330 (2000).					
	44	Namikawa, T. J., et al., "Akt/Protein Kinase B Prevents Injury-Induced Motoneuron Death and Accelerates Axonal Regeneration", J. of Neuroscience, 20(8), 2875-2986 (2000).					
	45	Molina	a, T.J. et al., "Profound block in thymocyte development in mice la	icking p56lck", Nature,	357, 161-164 (1992).		
	46	Kimura, M. et al., "Cell Cycle-dependent Expression and Centrosome Localization of a Third Human Aurora/lpl1-related Protein Kinase, AlK3", J. Biol. Chem., 274(11), 13766-13771 (1997).					
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